

Date: Wed, 29 Jun 94 18:04:40 PDT  
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>  
Errors-To: Info-Hams-Errors@UCSD.Edu  
Reply-To: Info-Hams@UCSD.Edu  
Precedence: Bulk  
Subject: Info-Hams Digest V94 #721  
To: Info-Hams

Info-Hams Digest                      Wed, 29 Jun 94                      Volume 94 : Issue 721

Today's Topics:

    AEA IsoLoop - Opinion (3 msgs)  
    Does anyone have a 73 or so callbook?  
        Failed mail  
        heathkit info. needed  
    Kenwood RM76 Docs Wanted  
    Mobile HF Noise Problem  
        simnplex on two meter  
    Temp. Conversion Chart: F & C? (2 msgs)  
    VOX for 2way radio in motorcycle helmet

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>  
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>  
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available  
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text  
herein consists of personal comments and does not represent the official  
policies or positions of any party. Your mileage may vary. So there.

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Date: Wed, 29 Jun 1994 19:42:00 GMT  
From: ihnp4.ucsd.edu!swrinde!howland.reston.ans.net!math.ohio-state.edu!  
magnus.acs.ohio-state.edu!csn!col.hp.com!srngenprp!alanb@network.ucsd.edu  
Subject: AEA IsoLoop - Opinion  
To: info-hams@ucsd.edu

John Welch (jjw@seastar.seastar.org) wrote:  
:     Untill somebody else will do a side-by-side comparison,

I have done just that. My test was similar to yours as I compared the  
IsoLoop to an 80 meter dipole tuned with a Johnson Matchbox to the  
20 and 15 meter bands. (The dipole was mounted inverted vee fashion  
with the apex about 5 feet below the IsoLoop, which was on a mast about  
50 feet above ground.)

One difference between my test setup and yours is that I used a coax switch so I could do instantaneous comparisons of signals between the two antennas. In several days of testing, I was never able to see a significant difference between them. (Actually, there was one exception to that statement: A station in Calistoga, about 10 miles away, was about an S-unit stronger on the dipole, but I don't consider that a valid test on the 20 meter band.)

: I will  
: stand beside the laws of physics that show smaller antenna size will  
: mean worse performance, ...

The laws of physics show no such thing. It is theoretically possible for a small loop to be 100% efficient. It's true that it's hard to approach that ideal in practice, but the IsoLoop comes impressively close.

As I said before, however, I am not a big IsoLoop fan. I still think \$300 is a lot to pay for an antenna that performs almost as well as a dipole. But for some situations, it might make sense.

: In short, if an antenna sounds too good to be  
: true, it isn't true. There is no snake-oil cure for size.

That criticism might be valid for some antennas on the market (the similarly-named "Isotron" is one that comes to mind), but the IsoLoop works as claimed and is a perfectly reasonable antenna to use.

AL N1AL

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Date: 29 Jun 1994 20:49:22 GMT  
From: ihnp4.ucsd.edu!usc!nic-nac.CSU.net!charnel.ecst.csuchico.edu!olivea!korie!  
news2me.EBay.Sun.COM!engnews2.Eng.Sun.COM!usenet@network.ucsd.edu  
Subject: AEA IsoLoop - Opinion  
To: info-hams@ucsd.edu

In article <1994Jun28.121648.16126@seastar.seastar.org> jjw@seastar.seastar.org  
(John Welch) writes:

> One more time, for the record: If there \*was\* something wrong with  
>our IsoLoop, it was wrong on the only other IsoLoop we had known,  
>whose owner \*THREW IT AWAY\* after using it for 6-8 months.

>it's great indoors for apartment dwellers. We got ours from an  
>apartment dweller who was intending to throw \*it\* out as well and go

>back to his home-made slinky antenna.

John, since you seem to have this amazing ability to locate people throwing away their IsoLoops, would you let me know next time it happens? I'd be glad to pay shipping to get a free one.

Rich

--

Rich McAllister (rfm@eng.sun.com)

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Date: Wed, 29 Jun 1994 21:29:10 GMT  
From: newsgate.melpar.esys.com!melpar!phb@uunet.uu.net  
Subject: AEA IsoLoop - Opinion  
To: info-hams@ucsd.edu

dbushong@wang.com (Dave Bushong) writes:

>The quote about fooling "some of the people all of the time" goes like  
>this:

>"You can fool some of the people all of the time, and you can fool  
>all of the people some of the time, but you can't fool all of the  
>people all of the time."- Abraham Lincoln, KZ10

Personally, I prefer the following version:

"You can fool some of the people all of the time, and all of the people  
some of the time, and those are pretty good odds." - Brett Maverick

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| Paul H. Bock, Jr. Principal Systems Engineer |  
| E-Systems/Melpar Division pbock@melpar.esys.com |

| '83 \_\_\_\_\_ 193K |

| \_\_\_\_//\_\_][\_\_\\\_\_|

| (o \_ Volvo SW\_ o|

| `(\_)------(-)--'

| Just like the Energizer bunny,  
| it's "still going!" |

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Date: Wed, 29 Jun 1994 16:41:30 GMT  
From: gsm001!gsm@uunet.uu.net  
Subject: Does anyone have a 73 or so callbook?  
To: info-hams@ucsd.edu

I am looking for someone to look up a call in the 1973 or so callbook.  
If you have one and would not mind looking up a call for me, please  
email me. Thanks and 73,

Geoff.

--

"I am number six. Others come and others go, but I am always number six."  
(From the movie "Eminent Domain".)

Geoffrey S. Mendelson N3OWJ (215) 242-8712 gsm@mendelson.com

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Date: Wed, 29 Jun 1994 23:12:26 GMT  
From: ihnp4.ucsd.edu!usc!howland.reston.ans.net!gatech!newsxfer.itd.umich.edu!  
zip.eecs.umich.edu!panix!viper!sysadm@network.ucsd.edu  
Subject: Failed mail  
To: info-hams@ucsd.edu

===== Transcript follows =====

While talking to w1eox.ampr.org:  
>>> DATA  
<<< 503 Need MAIL command

===== Unsent message follows =====

Received: from n1cit-5 by n1nwp-1 (MFNOS 1.12)  
with SMTP id AA514 ; Wed, 29 Jun 94 18:33:32 EST  
Received: from groucho.kc2ky.ampr.org by n1cit-5 (JNOS 1.09 - MFNOS 1.10)  
with SMTP id AA8414 ; Wed, 29 Jun 94 16:53:44 GMT  
Received: from kc2ky.ampr.org by groucho.kc2ky.ampr.org (MFNOS 1.12f)  
with SMTP id AA15462 ; Mon, 27 Jun 94 20:15:47 EST  
Received: from kc02fd.ampr.org by kc2ky.ampr.org (MFNOS 1.12f)  
with SMTP id AA60991 ; Mon, 27 Jun 94 20:06:38 EST  
Received: from n2mdq.ampr.org by kc02fd.ampr.org (NOS<>FBB\_BBS)  
with SMTP id AA10853 ; Mon, 27 Jun 94 23:00:59 UTC  
Received: from viper.wb2sjz.ampr.org by n2mdq.ampr.org (MFNOS 1.12f)  
with SMTP id AA11365 ; Mon, 27 Jun 94 22:54:54 utc  
Received: by viper.wb2sjz.ampr.org (5.65/1.35)  
id AA07174; Sun, 26 Jun 94 21:00:05 -0400  
Date: Sun, 26 Jun 94 21:00:05 -0400  
From: news@viper.wb2sjz.ampr.org (NETNEWS)  
Message-Id: <9406270100.AA07174@viper.wb2sjz.ampr.org>  
To: allusenet@viper.wb2sjz.ampr.org  
Subject: rec.radio.amateur

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Date: Wed, 29 Jun 1994 20:46:49 GMT  
From: ihnp4.ucsd.edu!swrinde!gatech!newsxfer.itd.umich.edu!zip.eecs.umich.edu!  
yeshua.marcam.com!news.kei.com!world!news.bu.edu!gw1!cbnewsml  
hellman@network.ucsd.edu  
Subject: heathkit info. needed  
To: info-hams@ucsd.edu

In article <2un4ba\$2i2@nic-nac.CSU.net>, rdw@news-server (Robert Webster) writes:

>  
> I have purchased a Heathkit model HW-16 and it's companion VFO (HG13).  
> Being new to Ham radio, I am confused as to how to interconnect these two  
> units. I received a partial manual, but it does not have any  
> illustrations on how to put these two units together. I know that the  
> manuals are not complete as they are photo-copies of the original and  
> there is not enough information for me to get things up and running. Does  
> anyone out there know of a source for complete manuals or perhaps that  
> might be familiar with these units. I believe that Heathkit is out of  
> business. I can receive signals, but can't seem to get this thing  
> together for transmitting. Thanks in advance for any help. KE6FDU (new  
> novice and still not on the air!!)

Robert: I have an HW-16 (I don't have the vfo!). Heath can still supply  
manuals. The HW-16 has a built in vfo for rcv only. The external  
vfo is only used in transmit. You must be sure that you are transmitting  
and receiving on the same frequency! The back of the HW-16 has an RCA  
phono jack for the signal from the vfo. It also has an octal socket  
(like a tube socket) for supplying power to the external vfo.  
If you need more help, send me your e-mail address.

Shel Darack WA2UBK dara@physics.att.com

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Date: Wed, 29 Jun 94 19:52:45 GMT  
From: netcomsv!butch!enterprise!news@decwrl.dec.com  
Subject: Kenwood RM76 Docs Wanted  
To: info-hams@ucsd.edu

In article <1994Jun29.154148.17372@enterprise.rdd.lmsc.lockheed.com>,  
glyle@thor.seas.ucla.edu (George Lyle (233789)) writes:

|> My friend Burce, N7CPP has a Kenwood RM76 Remote Control Head  
|> for a TR7625. Unfortunately, his manual has disappeared into  
|> a black hole and he doesn't know how to program the thing!  
|>

|> Anyone with a manual to give/sell/repro, please get in touch  
|> with Bruce (callbook address is good), followup here, or give  
|> me a landline at (805) 298 4143.  
|>  
|> Don't Email, as it is Kaput :-(  
|>  
|> Thanks & 73's, George Lyle, N7TNJ

Sorry for the inappropriate post in this group. Thought I was  
in the r.r.a.swap group. More careful next time!

73's, N7TNJ

-----  
Date: Wed, 29 Jun 1994 19:16:12 GMT  
From: ihnp4.ucsd.edu!usc!nic-nac.CSU.net!charnel.ecst.csuchico.edu!olivea!  
news.bu.edu!gw1!nntp!bigtop!dwroll!raf@network.ucsd.edu  
Subject: Mobile HF Noise Problem  
To: info-hams@ucsd.edu

-----  
Date: Wed, 29 Jun 1994 20:12:32 GMT  
From: ihnp4.ucsd.edu!swrinde!elroy.jpl.nasa.gov!ncar!csn!dora!  
etuggle@network.ucsd.edu  
Subject: simplex on two meter  
To: info-hams@ucsd.edu

raymondd@powertech.no (Raymond Dalen) wrote the following in a previous article:

> ==> Quoting Etuggle@auc.trw.com to All <=  
>  
>  
> Et> I don't think I've ever heard anyone call CQ on a repeater. Lots of  
> Et> "xxxx monitoring" though. I always thought you'd like go to hell or  
> Et> something if you even thought about saying CQ on a repeater ;-)  
>  
> Et> -et  
> Et> KB0LZZ, Parker, Colorado  
>  
>  
> Why not CQ on a repeater? In Europe this is VERY common.  
>  
> - Raymond, LA7EHA.

I read another post that said it is common in other parts of the

U.S. I guess we just don't do it in Colorado. I think it would be better, however, to say CQ instead of "blah blah blah monitoring." It just seems more to the point. Don't ya think?

-et

KB0LZZ, Parker, Colorado

--

Eddie D. Tuggle, etuggle@dora.auc.trw.com | "There is nothing either good or  
TRW Denver Operations | bad, but thinking makes it so."  
16201 Centretech Pky / Aurora, CO 80011 | -- SHAKESPEARE  
Voice: 303.360.4001 FAX: 303.360.4133 |

-----  
Date: Wed, 29 Jun 1994 21:32:44 GMT  
From: ihnp4.ucsd.edu!swrinde!howland.reston.ans.net!spool.mu.edu!torn!nott!cunews!  
freenet.carleton.ca!FreeNet.Carleton.CA!as041@network.ucsd.edu  
Subject: Temp. Conversion Chart: F & C?  
To: info-hams@ucsd.edu

In a previous article, awinterb@du.edu (Art Winterbauer) says:

>Does anyone know of a source for a quick temperature conversion chart  
>between F and C? I can't recall the formula (or where to find it), and  
>would just like a way to rapidly convert between the two scales when  
>in QSO.

Art...we have been living with this for more than a decade here in  
Canada...a VERY rough quick conversion is double the C and add it to 32 F.

Example: 10 degrees C x 2 = 20 + 32 =~ 52 degrees F.  
10 degrees C is actually 50 degrees F but you can see how close it is.

Hope this helps....Rob

--

Robin Ludlow, VE3YE  
Orleans, Ontario, Canada  
as041@freenet.carleton.ca

-----  
Date: Wed, 29 Jun 1994 22:55:48 GMT  
From: ihnp4.ucsd.edu!sdd.hp.com!hp-pcd!hpcvsnz!tomb@network.ucsd.edu  
Subject: Temp. Conversion Chart: F & C?  
To: info-hams@ucsd.edu

Robin Ludlow (as041@FreeNet.Carleton.CA) wrote:

: In a previous article, awinterb@du.edu (Art Winterbauer) says:

: >Does anyone know of a source for a quick temperature conversion chart  
: >between F and C? I can't recall the formula (or where to find it), and  
: >would just like a way to rapidly convert between the two scales when  
: >in QSO.

: Art...we have been living with this for more than a decade here in  
: Canada...a VERY rough quick conversion is double the C and add it to 32 F.

: Example: 10 degrees C  $\times 2 = 20 + 32 \approx 52$  degrees F.  
: 10 degrees C is actually 50 degrees F but you can see how close it is.

Heh, heh, an even easier way to solve the whole problem would be for  
us Americans to just drop F, then there would be no need for conversions.  
(Easy for me to say--I was trained as a chemist. What the heck is  
degrees F?? ;- ) Does anyone in the world besides us use F??

73, K7ITM

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Date: Wed, 29 Jun 94 16:17:41 PDT  
From: ihnp4.ucsd.edu!swrinde!gatech!news-feed-1.peachnet.edu!news.duke.edu!eff!  
news.kei.com!ssd.intel.com!chnews!news@network.ucsd.edu  
Subject: VOX for 2way radio in motorcycle helmet  
To: info-hams@ucsd.edu

Does anyone know of a VOX (Voice Operated Transmit) unit that I can place  
onto my Yaesu FT-470 HT so I can place my headset and mic into my motorcycle  
helmet?

Please respond to:

cecil\_walker@ccm.hf.intel.com

73s, Thanks, N7LTD

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Date: (null)  
From: (null)  
Richard Ferguson, KA0DXM

These opinions are my own, and no those of my employer.



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Date: 29 Jun 1994 19:40:32 GMT  
From: ihnp4.ucsd.edu!swrinde!howland.reston.ans.net!vixen.cso.uiuc.edu!  
newsrelay.iastate.edu!news.iastate.edu!wjturner@network.ucsd.edu  
To: info-hams@ucsd.edu

References <2uqn3t\$32t@tymix.Tymnet.COM>, <2urr63\$7jb@news.iastate.edu>,  
<2us6q0\$q99@crcnis1.unl.edu>u  
Subject : Re: License Renewal

In article <2us6q0\$q99@crcnis1.unl.edu>, gbrown@unlinfo.unl.edu (gregory brown)  
writes:

|> William J. Turner (wjturner@iastate.edu) wrote:  
|>  
|> : In article <2uqn3t\$32t@tymix.Tymnet.COM>, flanagan@niagara.Tymnet.COM (Dick  
Flanagan) writes:  
|> : |> Doesn't anyone read the Regs anymore?  
|> : |>  
|> : |> 97.19(c) When the licensee has submitted a timely application for renewal  
|> : |> of an unexpired license...  
|>  
|> : So, if you never renew and you never \*tell\* the FCC you didn't renew,  
|> : you can operate forever? (Yeah, right!)  
|>  
|>  
|> Geez, apparently people not only do not read the regs, they don't read  
|> the posts they comment on!  
|>  
|> "When a licensee has submitted a timely application..."

Why don't you? The poster also said:

"In other words, you may continue to operate until you eventually receive  
your renewed license =OR= until you are notified by the FCC that it was  
not renewed."

See the "=OR="?? That implies if you don't renew and don't tell the FCC  
you can operate forever!

(Not what he meant, but he did say it...)

-----  
Date: 29 Jun 1994 19:44:41 GMT  
From: ihnp4.ucsd.edu!usc!howland.reston.ans.net!europa.eng.gtefsd.com!  
newsxfer.itd.umich.edu!newsrelay.iastate.edu!news.iastate.edu!

wjturner@network.ucsd.edu  
To: info-hams@ucsd.edu

References <2urr2v\$7j3@news.iastate.edu>,  
<1994Jun29.171513.20340@ptsfa.PacBell.COM>, <Cs67xw.7Jo@wang.com>iast  
Subject : Re: Temp. Conversion Chart: F & C?

```
In article <Cs67xw.7JJo@wang.com>, dbushong@wang.com (Dave Bushong) writes:
|> dmtur@ptsfa.PacBell.COM (Dave Turner) writes:
|>
|> >In article <2urr2v$7j3@news.iastate.edu> wjturner@iastate.edu (William J.
Turner) writes:
|> >>
|> >>In article <CryHrM.DKF@du.edu>, awinterb@du.edu (Art Winterbauer) writes:
|> >>|> Does anyone know of a source for a quick temperature conversion chart
|> >>|> between F and C? I can't recall the formula (or where to find it), and
|> >>|> would just like a way to rapidly convert between the two scales when
|> >>|> in QSO.
|> >>
|> >>Making your own is probably the easiest way. The formula is:
|> >>
|>
|> No, it's easier to print this and cut it out.
```

Not if you don't have it to begin with, it isn't. (And, you don't know where to look, which was obviously true of the original poster.)

Date: 29 Jun 1994 23:04:47 GMT  
From: ihnp4.ucsd.edu!library.ucla.edu!agate!kennish@network.ucsd.edu  
To: info-hams@ucsd.edu

References <hamilton.772822046@BIX.com>, <STEVE.94Jun28194107@susie.vigra.com>,  
<2usdrb\$1j2@agate.berkeley.edu>  
Subject : Re: [Long] Battery mah measurements & W&W (Was: Opinions on batteries?)

```
In article <2usdrb$lj2@agate.berkeley.edu>,
Ken A. Nishimura <kennish@kabuki.EECS.Berkeley.EDU> wrote:
>
>
>Well, you want to stop when the cells get to 1.0V each, or 12V
>for the pack. Anything after that and you risk cell reversal.
```

I have just been notified that I was asleep at the wheel. The battery in question is a 10-cell (12.0V) and thus, you want to stop

when it goes to 10.0V, not 12.0V. Whoops!

>

>it will get cycled. But, I would be curious to see what your  
>results would be if you repeated the experiment. Go to 12.0V

^^^^

>only, the rest is bad for your cells. Do what you did, but just  
>integrate current over time, and not worry about the terminal voltage  
>as long as it is above 12.0V. I would guess that the second time

^^^^^

>you'll get more capacity.

Same problem. Substitute 10.0V for 12.0V.

Gotta get a new CPU for the space above the shoulders.

-Ken

p.s. for you electrochemically inclined, the reason you need to charge to such a high terminal voltage and evolve oxygen at the positive electrode to achieve full charge is that the equilibrium potential for the Ni(3+)/Ni(2+) combination is 1.33V ref. hydrogen electrode in KOH, while it only takes 1.23V to split water. So, in order to run at equilibrium, you are already getting oxygen evolution. You need an overvoltage to overcome polarization and kinetic effects.

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Date: 29 Jun 1994 19:43:31 GMT

From: ihnp4.ucsd.edu!swrinde!gatech!newsxfer.itd.umich.edu!newsrelay.iastate.edu!  
news.iastate.edu!wjturner@network.ucsd.edu

To: info-hams@ucsd.edu

References <CryHrM.DKF@du.edu>, <2urr2v\$7j3@news.iastate.edu>,  
<1994Jun29.171513.20340@ptsfa.PacBell.COM>ne

Subject : Re: Temp. Conversion Chart: F & C?

In article <1994Jun29.171513.20340@ptsfa.PacBell.COM>, dmtur@ptsfa.PacBell.COM  
(Dave Turner) writes:

|> In article <2urr2v\$7j3@news.iastate.edu> wjturner@iastate.edu (William J.  
Turner) writes:

|> There is a typo in the second formula. It should read:

|>

|>  $(C - 40) = (5 / 9) * (F + 40)$

Yes, thanks for pointing that out. (Shouldn't let my fingers do quite  
so much walking...)

|> Although I remember the first formula (and its sibling),  
|> I use the second formula because it will work for C -> F  
|> with minor changes:  
|>  
|>  $(F - 40) = (9 / 5) * (C + 40)$   
|>  
|> Actually all I remember is:  
|>  
|> add 40 to the known temperature  
|> multiply by 5/9 or 9/5  
|> subtract 40  
|>  
|> The only tricky part is knowing that F degrees are smaller than C degrees  
|> so you multiply by 5/9 to convert to C and 9/5 to convert to F.

Same reason I use it...

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Date: 29 Jun 1994 19:41:53 GMT  
From: ihnp4.ucsd.edu!swrinde!howland.reston.ans.net!vixen.cso.uiuc.edu!  
newsrelay.iastate.edu!news.iastate.edu!wjturner@network.ucsd.edu  
To: info-hams@ucsd.edu

References <772329681.AA01202@afarm.uucp>,  
<2uqn3t\$32t@tymix.Tymnet.COM>,<2urr63\$7jb@news.iastate.edu>,  
<Cs66G3.Hlt@utnetw.utoledo.edu>jtur  
Subject : Re: License Renewal

In article <Cs66G3.Hlt@utnetw.utoledo.edu>, pouelle@uoft02.utoledo.edu writes:  
|> In article <2urr63\$7jb@news.iastate.edu>, wjturner@iastate.edu (William J.  
Turner) writes:  
|> >  
|> >In article <2uqn3t\$32t@tymix.Tymnet.COM>, flanagan@niagara.Tymnet.COM (Dick  
Flanagan) writes:  
|> >|> In other words, you may continue to operate until you eventually receive  
|> >|> your renewed license =OR= until you are notified by the FCC that it was  
|> >|> not renewed.  
|> >  
|> >So, if you never renew and you never \*tell\* the FCC you didn't renew,  
|> >you can operate forever? (Yeah, right!)  
|>  
|> Don't you read? The first line starts with : WHEN THE LICENSEE HAS SUBMITTED  
|> A TIMELY APPLICATION FOR RENEWAL

Yes, the regs said that, but the commentary did not! \*That\* is what my

comment is about!!!!!!!!!!

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End of Info-Hams Digest V94 #721

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